METHOD AND DEVICE FOR PACING AN IMAGE READER AT A CONSTANT SCANNING SPEED

ABSTRACT OF THE DISCLOSURE

Speed fluctuations at a motor supplied with a two-phase current is reduced by changing the current value ratio at each phase in the drive current to feed a drive motor for an image reader to allow a light source lamp to move, free from speed fluctuations, to scan at a constant scanning speed. The drive motor is supplied with current different in value at each phase from constant current drive circuits, which, in one embodiment, are connected with current regulating variable resistors. An acceleration detector is fixed at the drive motor to detect acceleration fluctuations in rotation of the drive motor to detect speed fluctuations. In some embodiments, thermal control of the motor drive circuit is provided and vibration proofing to isolate the light receptor from the drive motor.